

Intelligent Transportation Systems



These signs, called *Dynamic Message Signs*, help motorists by informing them of upcoming construction and congestion. The signs also provide general traffic-related information when pertinent.

TRAFFICWISE



INDOT has implemented a new program called TRAFFICWISE, which focuses on specifically addressing non-recurrent congestion such as that caused by crashes, recurrent congestion (rush hour) and congestion related to work zones. INDOT expects TRAFFICWISE to save motorists 10-25 percent in travel time, and officials hope for a similar drop in accidents.

The most significant TRAFFICWISE deployments currently underway in Indiana are the three Advanced Traffic Management System (ATMS) projects,

located in the Northwest Indiana, Indianapolis and Jeffersonville areas. The three major components of an ATMS are real-time traffic and weather monitoring system, an incident response program and traveler information system.

Traffic and Weather Monitoring



The TRAFFICWISE system is capable of monitoring real-time traffic and weather conditions on the interstate within the ATMS deployment areas. These sensors will enable INDOT personnel to identify locations in which traffic is congested or an unsafe situation exists. The sensors are installed on the Borman Expressway and I-65 roadside in Northwest Indiana, and are being designed for the Indianapolis area. Closed Circuit Television (CCTV) cameras will then be utilized to collect further information that can be sent to emergency responders en route to the problem area.

Traveler Information

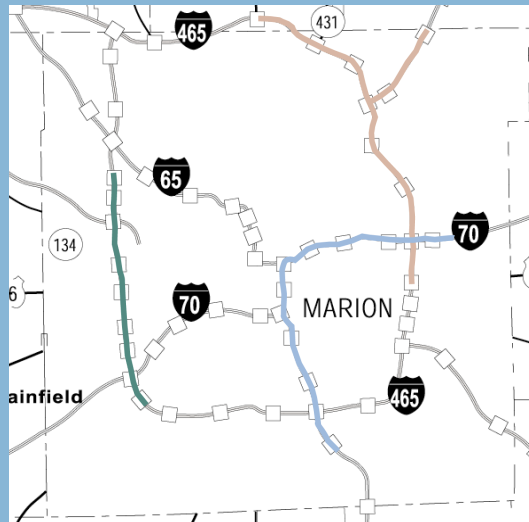
In the TRAFFICWISE system, notifying the statewide public is accomplished through the utilization of Dynamic Message Signs (DMS), Highway Advisory Radio (HAR) Stations, alphanumeric pagers and the internet. The traveler can then use this information to make real-time decisions about their travel route. Highway Advisory Radio can be found at 530AM on the radio dial.



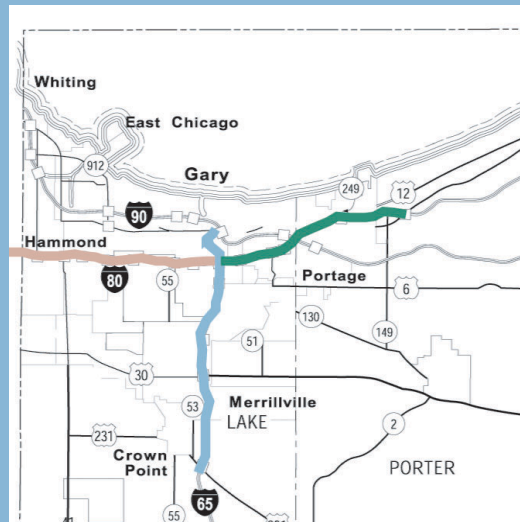
Hoosier Helper Don Holder helps a stranded college student get home (top). Holder picks up debris from roadway as he places cones to assist motorists in avoiding a stranded vehicle



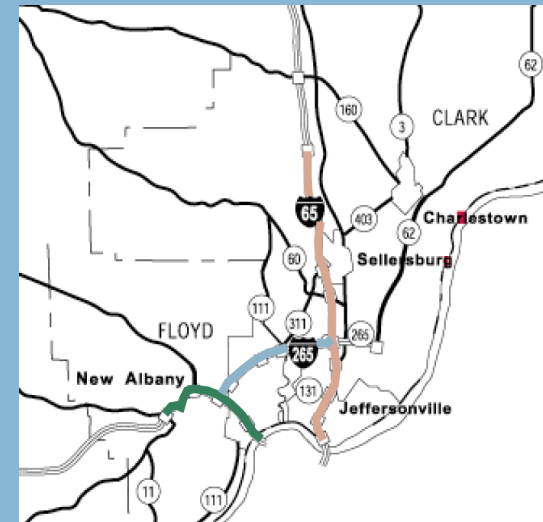
Hoosier Helper Patrol Routes: Indianapolis area, Lake and Porter counties and Floyd and Clark counties



Indianapolis/Central Indiana



Lake and Porter counties



Floyd and Clark counties

Incident Response

Hoosier Helpers are three primary INDOT incident responders in the TRAFFICWISE system. Special freeway service patrol (FSP) units utilize specially identified and equipped vans to respond to disabled motorists, traffic crashes, debris and any other problem that has the potential to reduce traffic flow as detected via the traffic and weather sensors. In

2000, the Hoosier Helpers working in the Indianapolis area responded to more than 10,000 incidents.

INDOT, through partnerships formed with other emergency service agencies such as the Indiana State Police, is also working to increase the efficiency of response efforts. The Advanced Traffic Management

System is nearly complete (99 percent) in Northwest Indiana, is approximately 20 percent complete in the Indianapolis area and is 100 percent complete in Clark and Floyd counties.